

Fulton Tower Construction

Missouri Department of Natural Resources  
**2010 Annual Compliance Report**  
of Missouri Public Drinking Water Systems





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# Note from the Branch Chief

Missouri is blessed with an abundance of high-quality water supplied by its many underground aquifers and major river networks. These sources provide Missourians with water not only for drinking but for a myriad of household and other purposes. It is critical to the state's economy that water provided to the public be safe and abundant.

The Public Drinking Water Branch of the Missouri Department of Natural Resources has the important mission of ensuring the state's 2,797 public water systems provide safe drinking water to every resident and visitor to the state. To do this, the branch sets limits and monitors for 91 contaminants that could be found in public drinking water supplies. This report provides information on how well public water systems in Missouri are meeting the standards for providing safe drinking water.

This is the fifteenth Annual Compliance Report the Public Drinking Water Branch has produced since 1996 and covers compliance statistics for calendar year 2010. Each state produces a similar annual report on its public water systems. The reports are made available to the public and are provided to the U.S. Environmental Protection Agency for inclusion in a national report summarizing the performance of the nation's public drinking water systems.

The branch provides this report not only to comply with statutory obligations mandated by the federal Safe Drinking Water Act, but also to focus attention and provide an understanding of the importance of quality drinking water to the public.

The report shows that Missouri's water systems continued to provide safe and reliable drinking water in 2010. While most of Missouri's compliance figures are very high, one measure saw a significant decline in 2010. The decline is due almost entirely to a single, short-term event at our largest water supplier. Even though the event lasted less than five minutes and only affected a small number of customers, EPA considers the entire water system to have been out of compliance for the entire year. The Total Coliform Rule monitoring and maximum contaminant level requirements generate the most violations because they require the most frequent sampling. Several Missouri systems are also struggling to comply with the Radionuclides Rule, although many have returned, or in the process of returning, to compliance. The high cost of radionuclide treatment technologies and limited disposal options make it difficult for small systems to comply. A few systems are experiencing difficulty complying with current disinfection byproduct requirements as we work to prepare for the more stringent Stage 2 Disinfectants and Disinfection Byproducts Rule, which becomes effective in 2012. Compliance with Consumer Confidence Report requirements continues to be high due to increased staff efforts and assistance provided by the Missouri Rural Water Association. In addition, the number of acute Total Coliform violations dropped significantly in 2010. We continue focusing on these and other standards to ensure Missourians will continue to receive high-quality, safe drinking water.

In late 2009 the new federal Groundwater Rule went into effect, imposing a host of new requirements on the 88 percent of Missouri Public Water Systems that use groundwater as their source. This rule is proving very challenging to both public water systems and regulators. The department has been working hard to assist affected public water systems struggling to comply with this complicated rule.

I hope you find this report informative and useful.

Steven W. Sturgess, Chief  
Public Drinking Water Branch  
Missouri Department of Natural Resources



## What is a Public Water System?

A public water system is defined as a system that provides water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year. These are the systems that are the focus of this report.

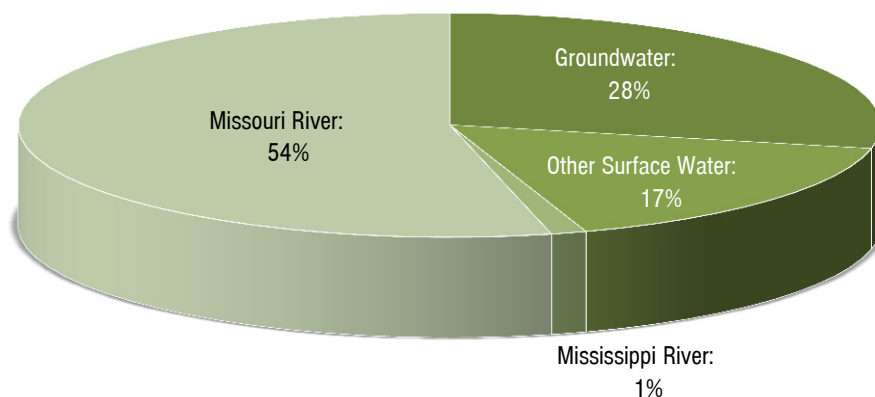
There are three types of public water systems:

- **Community systems** include towns, water districts, subdivisions, mobile home parks and residential facilities such as nursing homes or prisons.
- **Nontransient non-community systems** serve the same people every day, but not in a residential setting; schools and factories are good examples.
- **Transient non-community systems** serve different people daily, such as restaurants, resorts and rest stops. These smaller systems are typically in rural areas where it is not feasible to hook up to a city or water district.

Requirements for construction, operation, monitoring, etc., vary among systems based on their type, size and source of water.

Water testing at systems that are not public water systems (for example, homes served by private wells) is facilitated by local and county sanitarians and the Missouri Department of Health and Senior Services, rather than the Department of Natural Resources.

## Source of Water (Percent Population Served)



## The Missouri Public Water System Universe

In 2010, there were 2,797 active public water systems in Missouri. Of this total, 1,471 were community, 241 were non-transient non-community and 1,085 were transient non-community systems.

The community water systems in Missouri served more than 5 million citizens in 2010. These citizens benefit from one of Missouri's most outstanding resources: its water. There is generally a large quantity of high-quality water in Missouri.

By far the largest source of drinking water for Missourians is surface water from the Missouri River. The abundant supply of water in the Missouri River and its proximity to the state's major population centers make the use of this river as a source so popular.

Groundwater is the next most used source of drinking water for Missouri's community supplies. In southern Missouri, good quality groundwater is easy to obtain and typically

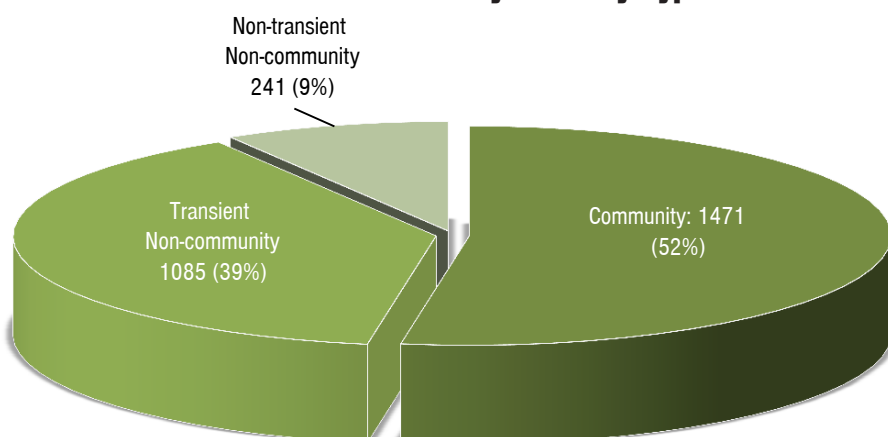
requires very little treatment to be used for drinking water. Some groundwater systems have the best of both worlds and use alluvial wells in valleys of the Missouri and Mississippi river system where they can get large volumes of water free of surface contaminants. Wells in the Missouri River alluvium provide groundwater to a significant population. More than half the state's population get their drinking water from the Missouri River or its alluvial wells. The importance of this resource cannot be overstated.

## Analysis of Compliance

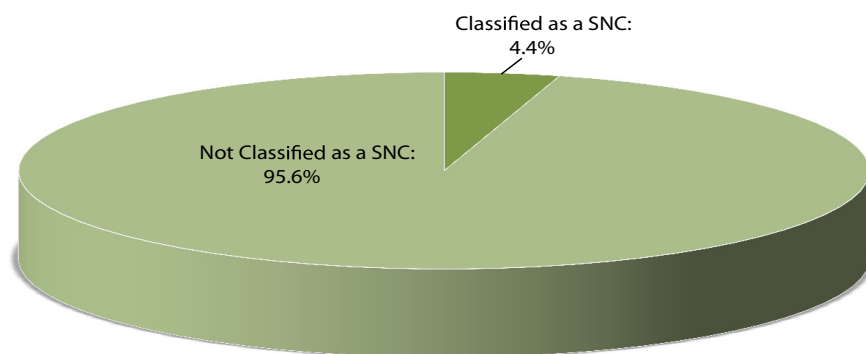
We expect a lot from our public water systems and require testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. A system is to be applauded for performing all required testing and meeting all maximum contaminant levels, also referred to as MCL, and treatment technique standards. When violations do occur, that often is the first identification of a problem and can be the first step toward correcting it. Many public water systems perform testing beyond what is required by the state.

The Summary of Violations table in this report counts individual violations. Each public water system has the potential to accumulate multiple violations during the year because there are multiple regulations involved and some monitoring is on a monthly schedule. For example, the monitoring requirements for the Total Coliform Rule alone create a potential for more than 30,000 violations. This puts

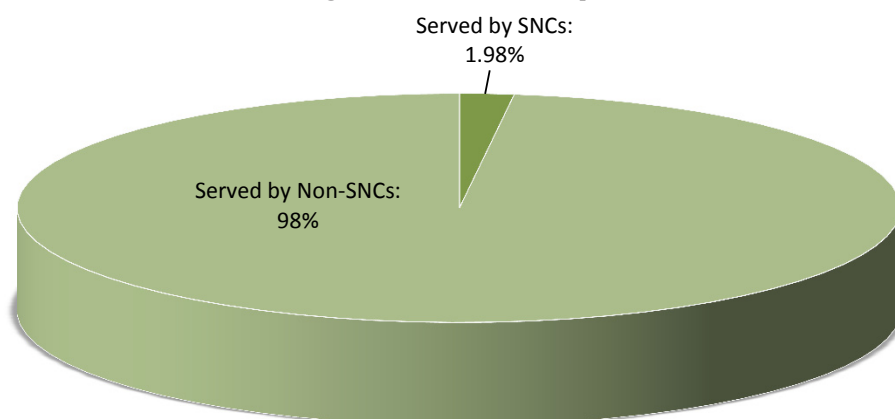
## 2010 Public Water Systems by Type



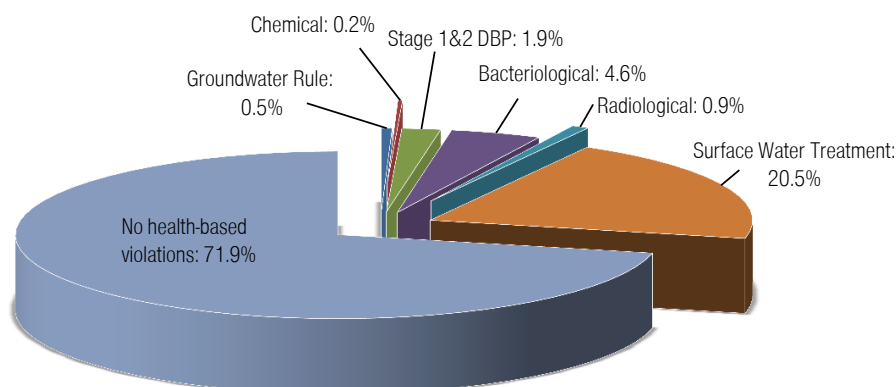
## Significant Non-Compliers



## Percent of Population Served by Significant Non-Compliers



## Percent Population of Community Water Systems Meeting Health-based Standards



There is overlap in that some systems violate more than one area.

some perspective on the violation figures shown in the Summary of Violations table and the information in the appendices. Another factor to consider is the number of systems that have violations. Many of the violations are from water systems with problems that result in multiple violations during the year. Other systems may only have one or two violations.

Appendices A through D list specific systems by county. The department uses various methods to focus on the water systems that need attention. One of these is the Significant Noncomplier, or SNC, List. This is a list of systems with serious violations that potentially affect public health or with multiple monitoring violations. Appendix D gives the list of Significant Non-Compliers for 2010.

Some of the systems listed, however, may have already resolved their problems. During 2010 there were 122 systems on the SNC list. This is significantly lower than the number of systems on the list in 2009. Those systems listed as Significant Non-Compliers typically serve a small population. They accounted for 4.36 percent of public water systems, and 1.98 percent of the population served. Maximum contaminant level and treatment technique violations represent the most significant impact on the public health. These occurred at a small number of public water systems serving approximately 28.1 percent of the population.

Since 1996, when the first Annual Compliance Report was produced, through 2003, Missouri has consistently met or exceeded EPA's target of serving water that meets all health-based standards to 95 percent of the population. Again in 2006, Missouri community water systems met EPA's target. The small dip below the 95 percent target in 2004 and 2005 did not represent a reduction in water quality, but is a result of more stringent drinking water standards. In 2007, this compliance measure dropped significantly because Missouri's largest water system had a treatment technique violation. The same phenomenon happened again in 2010. Even though these events were of short duration, the entire population had

to be counted in this statistic. For more information on this item, refer to the 2008 Annual Compliance Report.

EPA and the states have worked together to develop an additional compliance measure called “person-months during which community water systems provide water that meets health-based standards.” This measure is intended to take into account situations where violations are of short duration. Missouri achieved 96.4 percent compliance with this measure in 2010. The national target for federal fiscal year 2010 was 95 percent.

The majority of MCL and monitoring violations in 2010 were for failure to meet the requirements of the Total Coliform Rule. Total coliform bacteria serve as an indicator that disease-causing organisms may be present. All public water systems in the state must test for this type of bacteria every month they dispense water to the public. Monitoring violations are by far the most common violation for this rule. The department is particularly concerned when monitoring violations occur at public water systems that have a history of bacteriological contamination. Adequate testing is the only way to know for sure if the problems have been corrected or have reoccurred.

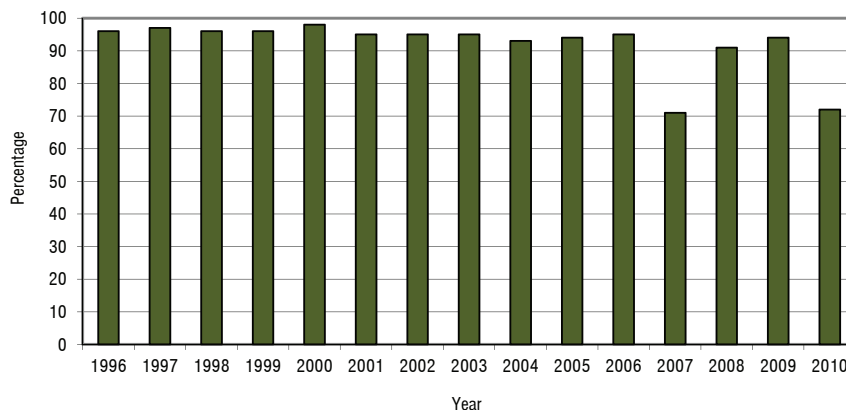
In 2010, 0.79 percent, 22 public water systems, had acute violations for fecal coliform or *E. coli*. (Three of these systems had multiple acute MCL violations during the year, resulting in a total of 25 acute MCL violations.)

Another way to look at the number of acute MCL violations is to compare the number that actually occurred to the number possible. Since bacteriological testing is required monthly, the 2,797 water systems had more than 30,000 chances to get an *E. coli* MCL violation. The 25 that actually occurred represent one-tenth of 1 percent of the number possible. While these acute violations can be serious, they are rare.

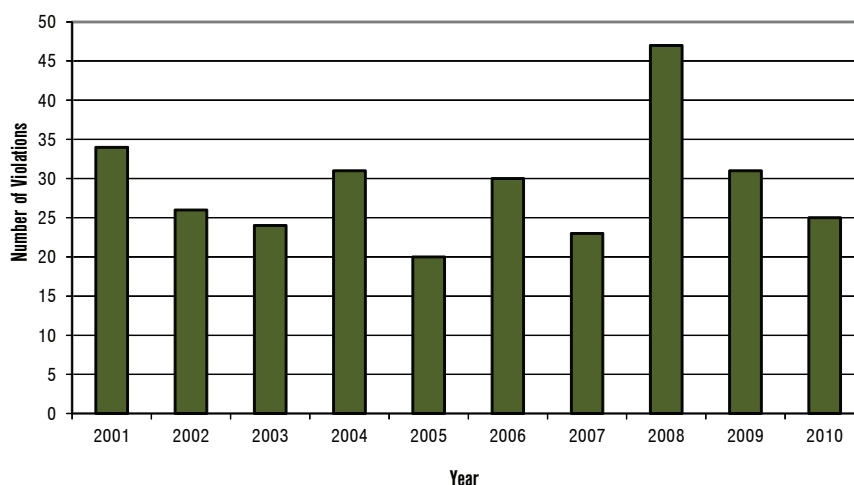
Some people may be more vulnerable to waterborne illness than the general population. To educate the public on this issue, community water systems include

## Drinking Water Trends

### Community Systems: Population Served Meeting All Health-Based Requirements



### *E. coli*/Fecal Coliform Acute MCL Violations



a warning in their annual Consumer Confidence Reports stating that some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections.

The Consumer Confidence Report provides detailed information about the specific community water system, while this report does not. Consumer Confidence Reports include specifics about the water system, including the source of drinking water and the levels of naturally occurring substances

in drinking water. Usually these pose no health threat and are not violations. The report must list violations of state and federal requirements for that year. The department has made a concerted effort to provide technical assistance to small water systems through a circuit rider to help with report preparation and distribution. As a result, the overall compliance rates have been high. In 2010, 97.75 percent of Missouri’s community water systems distributed their Consumer Confidence Reports properly.

Anyone can request a copy of their report from their public water system or by calling the department’s Public Drinking Water Branch at 800-361-4827 or 573-751-5331.

## Compliance Activities: Preserving the Quality of Drinking Water

The department works closely with violators to return them to compliance in a timely manner. This includes phone contacts, on-site inspections, meetings with owners or operators and technical assistance as needed. For the more serious violations, a Bilateral Compliance Agreement between the water system owner and the department is the tool used to move the system back into compliance. Bilateral Compliance Agreements are written agreements negotiated between and signed by the system owner and department staff. This process allows the department to determine the improvements the water system needs to make without either party having to endure the time and cost of litigation.

If a water system owner or operator violates a Bilateral Compliance Agreement, the department implements a negotiated settlement policy. Negotiated settlement agreements are more formal and enforceable than Bilateral Compliance Agreements and are reviewed and signed by staff from the Missouri Attorney General's Office. If the negotiated settlement agreement is unsuccessful, the department refers the case for legal action through the courts.

Public Drinking Water Branch staff work in



conjunction with other agencies to protect public health. By serving on a committee with staff from the Department of Health and Senior Services, the two agencies identify ways to support and benefit each other's activities. One of those areas is enforcement activity against facilities, such as restaurants, that are regulated by both agencies.

The department provides training and technical assistance in an effort to prevent the occurrence of violations. Training is routinely provided to operators and owners of public water systems around the state, primarily concentrating on the basic principles of running a water system, performing the required monitoring and preventing contamination of the system. Technical assistance in the form of phone contacts and on-site visits is also available to help water system operators avoid or correct problems. Staff in the department's regional and satellite offices carry out most of these activities.

For all violations, public water systems are required to notify the consumers they serve. The department provides all public water systems with the necessary forms and information to effectively notify the public. The method of notification varies by the violation and system type. Systems must report back to the department how the public notice was performed. Some violations, such as the confirmed detection of fecal coliform bacteria or E. coli, warrant immediate action due to the threat to public health. For such acute violations, the department requires systems to notify customers within 24 hours to boil water before consumption. Boil water orders remain in effect until the problem has been corrected and the water is safe to consume.

## For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Branch, P.O. Box 176, Jefferson City, MO 65102-0176 or calling 800-361-4827 or 573-751-5331. Information is also available on the department's website at [www.dnr.mo.gov/env/wpp/dw-index.htm](http://www.dnr.mo.gov/env/wpp/dw-index.htm).

## Summary of Violations Table

The following definitions apply to the Summary of Violations table.

**Filtered Systems:** Water systems that have installed filtration treatment [10 CSR 60-4.050].

**Inorganic Contaminants:** Non-carbon-based compounds such as metals, nitrates and asbestos. These contaminants are naturally-occurring in some water, but can get into water through farming, chemical manufacturing and other human activities. [10 CSR 60-4.030].

**Lead and Copper Rule:** Lead and copper corrosion pose various health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures [10 CSR 60, Chapter 15]. Violations are reported for: failure to monitor; failure to install optimal corrosion control treatment or a source water treatment system that would reduce lead and copper levels in water at the tap; failure to replace lead service lines on the schedule required by the regulation; and failure to provide required public education about reducing or avoiding lead intake from drinking water.

**Organic Contaminants:** Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories. [10CSR 60-4.040 and 4.100].

**Radionuclides:** Radioactive particles that can occur naturally in water or result from human activity. Safe drinking water regulations set maximum contaminant levels on five types of radionuclides: radium-226, radium-228, uranium, gross alpha and beta particle/photon radioactivity [10 CSR 60-4.060].

**Surface Water Treatment Rule:** This includes a series of rules promulgated from 1989-2009 that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term



1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule). [10 CSR 60-4.050 and 60-4.052]

Violations of the surface water treatment rules are reported for the following categories:

- Monitoring, routine/repeat (for filtered systems): Failure to carry out required tests or to report the results of those tests. A major monitoring violation for the surface water treatment rule occurs when at least 90 percent of the required samples are not taken or results are not reported during the compliance period.
- Treatment techniques (for filtered systems): Failure to properly treat the water.

**Total Coliform Rule:** The Total Coliform Rule, or TCR, establishes regulations for microbiological contaminants in drinking water. These contaminants can cause a short-term health problem. If no samples are collected during the one-month compliance period, a major monitoring violation occurs. States report four categories of violations to EPA:

- Acute MCL violation: A violation where the system found fecal coliform or E. Coli, potentially harmful bacteria, in its water.
- Non-acute MCL violation: A violation where the system found total coliform in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than 5 percent of the samples positive for total coliform violation.
- Major routine and follow-up monitoring: A violation where a system did not perform any monitoring.
- Sanitary Survey: A major monitoring violation if a system fails to collect five routine monthly samples if sanitary survey is not performed.

**Maximum Contaminant Level:** The highest amount of a contaminant allowed in drinking water. Maximum Contaminant



Levels, or MCLs, ensure drinking water does not pose a health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

**Monitoring:** The department specifies which water testing methods the water systems must use and sets schedules for the frequency of testing. A water system that does not follow the department's schedule or methodology is in violation. [10 CSR 60-4.010]. States must report monitoring violations that are significant as determined by the EPA Administrator, in consultation with the department. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period.

**Groundwater Rule:** Applies to public water systems that serve groundwater. It ensures monitoring of groundwater sources for

E. coli contamination, and relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

**Treatment Techniques:** A water disinfection process that EPA requires instead of a MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

**Violation:** A failure to meet any state or federal drinking water regulation.

## Organic Contaminants: Jan. 1, 2010 - Dec. 31, 2010

|                           |                            | MCL                  |                                   | Treatment Technique  |                                      | Significant Monitoring/Reporting |                                      |
|---------------------------|----------------------------|----------------------|-----------------------------------|----------------------|--------------------------------------|----------------------------------|--------------------------------------|
|                           | MCL <sup>1</sup><br>(mg/L) | No. of<br>Violations | No. of Systems<br>with Violations | No. of<br>Violations | No. of<br>Systems with<br>Violations | No. of<br>Violations             | No. of<br>Systems with<br>Violations |
| Organic Contaminants      |                            |                      |                                   | *                    |                                      |                                  |                                      |
| 1,1,1-Trichloroethane     | 0.2                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| 1,1,2-Trichloroethane     | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| 1,1-Dichloroethylene      | 0.007                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| 1,2,4-Trichlorobenzene    | 0.07                       |                      |                                   |                      |                                      | 5                                | 5                                    |
| 1,2-DBCP                  | 0.0002                     |                      |                                   |                      |                                      |                                  |                                      |
| 1,2-Dichloroethane        | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| 1,2-Dichloropropane       | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| 2,3,7,8-TCDD (Dioxin)     | 3x10-8                     |                      |                                   |                      |                                      |                                  |                                      |
| 2,4,5-TP                  | 0.05                       |                      |                                   |                      |                                      |                                  |                                      |
| 2,4-D                     | 0.07                       |                      |                                   |                      |                                      |                                  |                                      |
| Acrylamide                |                            |                      |                                   |                      |                                      |                                  |                                      |
| Alachlor                  | 0.002                      |                      |                                   |                      |                                      |                                  |                                      |
| Atrazine                  | 0.003                      | 3                    | 1                                 |                      |                                      |                                  |                                      |
| Benzene                   | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Benzo[a]pyrene            | 0.0002                     |                      |                                   |                      |                                      | 0                                |                                      |
| Carbofuran                | 0.04                       |                      |                                   |                      |                                      | 0                                |                                      |
| Carbon tetrachloride      | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Chlordane                 | 0.002                      |                      |                                   |                      |                                      | 0                                |                                      |
| cis-1,2-Dichloroethylene  | 0.07                       |                      |                                   |                      |                                      | 5                                | 5                                    |
| Dalapon                   | 0.2                        |                      |                                   |                      |                                      | 0                                |                                      |
| Di(2-ethylhexyl)adipate   | 0.4                        |                      |                                   |                      |                                      | 0                                |                                      |
| Di(2-ethylhexyl)phthalate | 0.006                      |                      |                                   |                      |                                      | 0                                |                                      |
| Dichloromethane           | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Dinoseb                   | 0.007                      |                      |                                   |                      |                                      | 0                                |                                      |
| Diquat                    | 0.02                       |                      |                                   |                      |                                      | 0                                |                                      |
| Endothall                 | 0.1                        |                      |                                   |                      |                                      | 0                                |                                      |
| Endrin                    | 0.002                      |                      |                                   |                      |                                      | 0                                |                                      |
| Epichlorohydrin           |                            |                      |                                   |                      |                                      |                                  |                                      |
| Ethylbenzene              | 0.7                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| Ethylene dibromide        | 0.00005                    |                      |                                   |                      |                                      |                                  |                                      |
| Glyphosate                | 0.7                        |                      |                                   |                      |                                      |                                  |                                      |
| Heptachlor                | 0.0004                     |                      |                                   |                      |                                      |                                  |                                      |
| Heptachlor epoxide        | 0.0002                     |                      |                                   |                      |                                      |                                  |                                      |
| Hexachlorobenzene         |                            |                      |                                   |                      |                                      |                                  |                                      |

<sup>1</sup> Values are in milligrams per liter (mg/L), unless otherwise specified

\*Shaded areas indicate a violation is not applicable in this category

## Organic Contaminants: Jan. 1, 2010 - Dec. 31, 2010

|                            |                            | MCL                  |                                   | Treatment Technique  |                                      | Significant Monitoring/Reporting |                                      |
|----------------------------|----------------------------|----------------------|-----------------------------------|----------------------|--------------------------------------|----------------------------------|--------------------------------------|
|                            | MCL <sup>1</sup><br>(mg/L) | No. of<br>Violations | No. of Systems with<br>Violations | No. of<br>Violations | No. of<br>Systems with<br>Violations | No. of<br>Violations             | No. of<br>Systems with<br>Violations |
| Hexachlorobenzene          | 0.001                      |                      |                                   |                      |                                      |                                  |                                      |
| Lindane                    | 0.0002                     |                      |                                   |                      |                                      |                                  |                                      |
| Methoxychlor               | 0.04                       |                      |                                   |                      |                                      |                                  |                                      |
| Monochlorobenzene          | 0.1                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| o-Dichlorobenzene          | 0.6                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| Oxamyl (Vydate)            | 0.2                        |                      |                                   |                      |                                      |                                  |                                      |
| Para-Dichlorobenzene       | 0.075                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Pentachlorophenol          | 0.001                      |                      |                                   |                      |                                      |                                  |                                      |
| Picloram                   | 0.5                        |                      |                                   |                      |                                      |                                  |                                      |
| Simazine                   | 0.004                      |                      |                                   |                      |                                      |                                  |                                      |
| Styrene                    | 0.1                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| Tetrachloroethylene        | 0.005                      | 0                    | 0                                 |                      |                                      | 5                                | 5                                    |
| Toluene                    | 1                          |                      |                                   |                      |                                      | 5                                | 5                                    |
| Total PCB                  | 0.0005                     |                      |                                   |                      |                                      |                                  |                                      |
| Toxaphene                  | 0.003                      |                      |                                   |                      |                                      |                                  |                                      |
| Trans-1,2-Dichloroethylene | 0.1                        |                      |                                   |                      |                                      | 5                                | 5                                    |
| Trichloroethylene          | 0.005                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Vinyl chloride             | 0.002                      |                      |                                   |                      |                                      | 5                                | 5                                    |
| Xylenes (total)            | 10                         |                      |                                   |                      |                                      | 5                                | 5                                    |
| Total trihalomethanes      | 0.80                       | 28                   | 10                                |                      |                                      | 4                                | 4                                    |
| Haloacetic acids           | 0.60                       | 8                    | 3                                 |                      |                                      | 4                                | 4                                    |
| Disinfection byproducts    |                            | 36                   | 11                                | 0                    | 0                                    |                                  |                                      |

<sup>1</sup> Values are in milligrams per liter (mg/L), unless otherwise specified

## Inorganic Contaminants: Jan. 1, 2010 - Dec. 31, 2010

|                           |                    | MCL               |                                | Treatment Technique |                                | Significant Monitoring/Reporting |                                |
|---------------------------|--------------------|-------------------|--------------------------------|---------------------|--------------------------------|----------------------------------|--------------------------------|
|                           | MCL (mg/L)         | No. of Violations | No. of Systems with Violations | No. of Violations   | No. of Systems with Violations | No. of Violations                | No. of Systems with Violations |
| Inorganic Contaminants    |                    |                   |                                |                     |                                |                                  |                                |
| Antimony                  | 0.006              |                   |                                |                     |                                | 5                                | 5                              |
| Arsenic                   | 0.010              |                   |                                |                     |                                | 5                                | 5                              |
| Asbestos                  | 7 million fibers/L |                   |                                |                     |                                |                                  |                                |
| Barium                    | 2                  |                   |                                |                     |                                | 5                                | 5                              |
| Beryllium                 | 0.004              |                   |                                |                     |                                | 5                                | 5                              |
| Cadmium                   | 0.005              |                   |                                |                     |                                | 5                                | 5                              |
| Chromium                  | 0.1                |                   |                                |                     |                                | 5                                | 5                              |
| Cyanide (as free cyanide) | 0.2                |                   |                                |                     |                                | 5                                | 5                              |
| Fluoride                  | 4.0                | 6                 | 2                              |                     |                                | 5                                | 5                              |
| Mercury                   | 0.002              |                   |                                |                     |                                | 5                                | 5                              |
| Nitrate                   | 10 (as nitrogen)   | 0                 | 0                              |                     |                                |                                  |                                |
| Nitrite                   | 1 (as nitrogen)    |                   |                                |                     |                                |                                  |                                |
| Selenium                  | 0.05               |                   |                                |                     |                                | 5                                | 5                              |
| Thallium                  | 0.002              |                   |                                |                     |                                | 5                                | 5                              |
| Total nitrate and nitrite | 10 (as nitrogen)   |                   |                                |                     |                                | 38                               | 38                             |

## Radiological Contaminants: Jan. 1, 2010 - Dec. 31, 2010

|                           |                             | MCL                  |                                   | Treatment Technique  |                                   | Significant Monitoring/Reporting |                                   |
|---------------------------|-----------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------------------|-----------------------------------|
|                           | MCL <sup>1</sup><br>(pCi/L) | No. of<br>Violations | No. of Systems<br>with Violations | No. of<br>Violations | No. of Systems<br>with Violations | No. of<br>Violations             | No. of Systems with<br>Violations |
| Radiological Contaminants |                             |                      |                                   |                      |                                   |                                  |                                   |
| Gross Alpha               | 15pCi/L                     | 49                   | 15                                |                      |                                   | 8                                | 5                                 |
| Radium-226 and radium-228 | 5 pCi/L                     | 60                   | 19                                |                      |                                   | 8                                | 5                                 |
| Gross beta                | 4 mrem/yr                   |                      |                                   |                      |                                   |                                  |                                   |
| Subtotal                  |                             | 109                  | 19 <sup>2</sup>                   |                      |                                   | 16                               | 5                                 |

## Microbiological Contaminants: Jan. 1, 2010 - Dec. 31, 2010

|  |                          | MCL               |                                | Treatment Technique  |                                | Significant Monitoring/Reporting |                                |
|--|--------------------------|-------------------|--------------------------------|----------------------|--------------------------------|----------------------------------|--------------------------------|
|  | MCL Presence/<br>Absence | No. of Violations | No. of Systems with Violations | Number of Violations | No. of Systems with Violations | Number of Violations             | No. of Systems with Violations |
| Total Coliform Rule                    |                          |                   |                                |                      |                                |                                  |                                |
| Acute MCL violation                    | Presence                 | 10                | 10                             |                      |                                |                                  |                                |
| Non-acute MCL violation                | Presence                 | 282               | 234                            |                      |                                |                                  |                                |
| Major routine and follow up Monitoring |                          |                   |                                |                      |                                | 1,003                            | 567                            |
| Sanitary survey <sup>3</sup>           |                          |                   |                                |                      |                                |                                  |                                |
| Subtotal                               |                          | 292               | 234 <sup>4</sup>               |                      |                                | 1,003                            | 567                            |

<sup>1</sup> Values are in Picocuries per liter (pCi/L), unless otherwise specified

<sup>2</sup> Some systems may have violations in multiple categories

<sup>3</sup> Number of violations for failure to perform sanitary survey under the Total Coliform Rule.

<sup>4</sup> All Systems with an acute MCL violation also had a non-acute monthly MCL violation for the same month



## Surface Water Treatment Rule: Jan. 1, 2010 - Dec. 31, 2010

|                                |     | MCL               |                               | Treatment Technique |                               | Significant Monitoring/Reporting |                               |
|--------------------------------|-----|-------------------|-------------------------------|---------------------|-------------------------------|----------------------------------|-------------------------------|
|                                | MCL | No. of Violations | No. of Systems with Violation | No. of Violations   | No. of Systems with Violation | Number of Violations             | No. of Systems with Violation |
| <b>Surface Water Treatment</b> |     |                   |                               |                     |                               |                                  |                               |
| Filtered systems               |     |                   |                               |                     |                               |                                  |                               |
| Monitoring, routine/repeat     |     |                   |                               |                     |                               | 0                                | 0                             |
| Treatment techniques           |     |                   |                               | 3                   | 2                             |                                  |                               |
| Unfiltered systems             |     |                   |                               |                     |                               |                                  |                               |
| Monitoring, routine/repeat     |     |                   |                               |                     |                               |                                  |                               |
| Failure to filter              |     |                   |                               |                     |                               |                                  |                               |
| Subtotal                       |     |                   |                               | 3                   | 2                             | 0                                | 0                             |

## Lead and Copper Rule: Jan. 1, 2010 - Dec. 31, 2010

|   |     | MCL               |                               | Treatment Technique |                               | Significant Monitoring/Reporting |                               |
|---|-----|-------------------|-------------------------------|---------------------|-------------------------------|----------------------------------|-------------------------------|
|   | MCL | No. of Violations | No. of Systems with Violation | No. of Violations   | No. of Systems with Violation | No. of Violations                | No. of Systems with Violation |
| <b>Lead and Copper Rule <sup>1</sup></b>                          |     |                   |                               |                     |                               |                                  |                               |
| Initial lead and copper tap monitoring and reporting              |     |                   |                               |                     |                               | 2                                | 2                             |
| Follow-up or routine lead and copper tap monitoring and reporting |     |                   |                               |                     |                               | 22                               | 22                            |
| Treatment installation  |     |                   |                               |                     |                               |                                  |                               |
| Public education  |     |                   |                               |                     |                               | 97                               | 93                            |
| Subtotal  |     |                   |                               |                     |                               | 121                              | 117                           |

<sup>1</sup> Includes any system not up to date on lead and copper monitoring. Not comparable with Annual Compliance Report figures from 2009

## Public Notification: Jan. 1, 2010 - Dec. 31, 2010

|  |     | MCL               |                               | Treatment Techniques |                               | Significant Monitoring/Reporting |                               |
|--|-----|-------------------|-------------------------------|----------------------|-------------------------------|----------------------------------|-------------------------------|
|  | MCL | No. of Violations | No. of Systems with Violation | No. of Violations    | No. of Systems with Violation | No. of Violations                | No. of Systems with Violation |
| <b>Public Notification</b>               |     |                   |                               |                      |                               |                                  |                               |
| Consumer Confidence Reports <sup>1</sup> |     |                   |                               |                      |                               | 63                               | 63                            |
| Subtotal                                 |     |                   |                               |                      |                               | 413                              | 401                           |

<sup>1</sup> Violations for failure to produce and distribute the 2009 Consumer Confidence Report in 2010

## Groundwater Rule: Jan. 1, 2010 - Dec. 31, 2010

|  |     | MCL               |                               | Treatment Technique |                               | Significant Monitoring/Reporting |                               |
|--|-----|-------------------|-------------------------------|---------------------|-------------------------------|----------------------------------|-------------------------------|
|  | MCL | No. of Violations | No. of Systems with Violation | No. of Violations   | No. of Systems with Violation | No. of Violations                | No. of Systems with Violation |
| <b>Groundwater Rule</b>                |     |                   |                               |                     |                               |                                  |                               |
| Failure to treat                       |     |                   |                               | 0                   | 0                             |                                  |                               |
| Failure to address contamination       |     |                   |                               | 0                   | 0                             |                                  |                               |
| Failure to address deficiency          |     |                   |                               | 23                  | 22                            |                                  |                               |
| Public Notice                          |     |                   |                               |                     |                               | 0                                | 0                             |
| Sanitary Survey                        |     |                   |                               |                     |                               | 0                                | 0                             |
| Major routine and follow up monitoring |     |                   |                               |                     |                               | 175                              | 142                           |
| Subtotal                               |     |                   |                               | 23                  | 22                            | 175                              | 142                           |

## Appendix A - MCL Violations - Acute

### I. Coliform MCL Violations - Acute

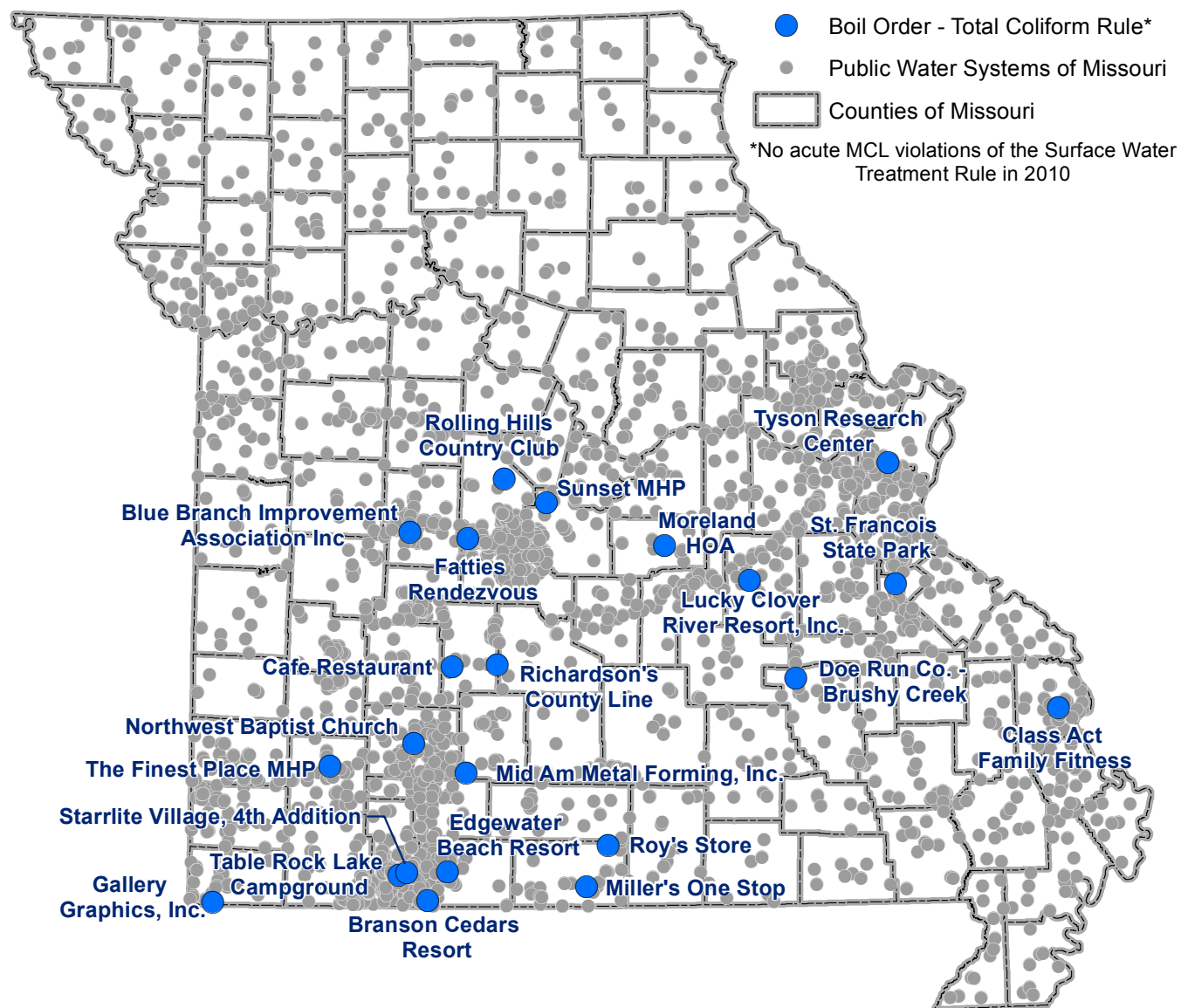
The following systems were under boil water orders due to acute MCL violations for fecal coliform or E. coli bacteria for the months listed. These acute violations also violate the standard for total coliform bacteria.

| County      | ID#       | System Name                      | Month(s)  | Issue     | Rescind    |
|-------------|-----------|----------------------------------|-----------|-----------|------------|
| Benton      | M03036123 | Blue Branch Improvement Ass. Inc | August    | 8/5/2010  | 9/10/2010  |
| Camden      | M03218100 | Fatties Rendezvous               | July      | 7/19/2010 | 7/23/2010  |
| Cape Girard | M04283006 | Class Act Family Fitness         | May       | 5/11/2010 |            |
| Crawford    | M04242910 | Lucky Clover River Resort Inc    | June      | 6/14/2010 | 6/18/2010  |
| Dallas      | M05212821 | Cafe Restaurant                  | May       | 5/26/2010 | 6/3/2010   |
| Dallas      | M05292476 | Richardsons County Line          | February  |           | 5/14/2010  |
| Greene      | M05272307 | Northwest Baptist Church         | November  | 12/1/2010 | 12/3/2010  |
| Lawrence    | M05048105 | The Finest Place MHP             | September | 9/20/2010 | 9/24/2010  |
| Maries      | M03191371 | Moreland Homeowners Association  | May       | 5/24/2010 | 6/4/2010   |
| McDonald    | M05182602 | Gallery Graphics Inc             | November  | 11/8/2010 | 11/18/2010 |
| Miller      | M05031430 | Sunset MHP                       | June      | 6/14/2010 | 7/9/2010   |
| Morgan      | M03202562 | Rolling Hills Country Club       | June      | 6/21/2010 | 7/1/2010   |
| Morgan      | M03202562 | Rolling Hills Country Club       | July      | 7/19/2010 | 7/29/2010  |
| Ozark       | M05292636 | Millers One Stop                 | July      | 7/23/2010 | 8/20/2010  |
| Ozark       | M05292331 | Roys Store                       | July      | 7/19/2010 | 7/30/2010  |
| Reynolds    | M04180666 | Doe Run Company Brushy Creek     | July      | 8/6/2010  | 8/10/2010  |
| St Francois | M04120167 | St Francois State Park           | June      | 6/9/2010  | 6/23/2010  |
| St Louis    | M06282400 | Tyson Research Center            | June      | 6/11/2010 | 6/19/2010  |
| Stone       | M05258070 | Starrlite Village 4th Addition   | May       | 6/14/2010 | 6/28/2010  |
| Stone       | M05240131 | Table Rock Lake Campground       | June      | 7/6/2010  | 7/20/2010  |
| Stone       | M05240131 | Table Rock Lake Campground       | July      | 7/23/2010 | 7/29/2010  |
| Taney       | M05282768 | Branson Cedars Resort            | June      | 6/28/2010 | 7/1/2010   |
| Taney       | M05191004 | Edgewater Beach Resort           | March     | 4/1/2010  | 4/7/2010   |
| Taney       | M05191004 | Edgewater Beach Resort           | July      | 7/16/2010 | 7/20/2010  |
| Webster     | M05183004 | Mid Am Metal Forming Inc         | September | 9/24/2010 |            |

**Note:** If no "Rescind Date", the boil order was still in effect at time of printing. If no "Issue Date", the boil order was already in effect when the violation occurred.

## 2010 Boil Water Orders

Issued due to acute MCL violations of the Total Coliform Rule and the Surface Water Treatment Rule



For current boil water orders, check the department's Web page at [www.dnr.mo.gov/env/wpp/boil/index.html](http://www.dnr.mo.gov/env/wpp/boil/index.html)

## Appendix A - MCL Violations Non-Acute

### I. Coliform MCL Violations

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County    | ID#       | System Name                             | Month(s)                     |
|-----------|-----------|---|------------------------------|
| BARRY     | M05036195 | TWIN RIVERS SUBD                        | August                       |
|           | M05241299 | SHORELINE CAMPGROUND AND RESORT         | June, July, August           |
|           | M05258287 | VIOLA R V & MOBILE HOME PARK            | January                      |
|           | M05258290 | KINGS VIEW SUBDIVISION                  | May                          |
|           | M05282767 | VFW POST 4207                           | July                         |
| BENTON    | M01031536 | OAK RIDGE ACRES                         | August, September            |
|           | M01041487 | SOUTHVIEW MHP & RV CAMP                 | August, September            |
|           | M01212833 | DIANTHAS COUNTRY KITCHEN                | July, August, September      |
|           | M01212836 | JESTERS HOUSE                           | September                    |
|           | M01272844 | ABUNDANT LIFE CHRISTIAN CHURCH          | September, October, November |
|           | M01282815 | REEDS RV PARK AND STORAGE               | July, October, June          |
|           | M03010835 | WARSAW                                  | June                         |
|           | M03036123 | BLUE BRANCH IMPROVEMENT ASSOCIATION INC | June, July, August           |
|           | M03040761 | LAKE HILLS MH/RV PARK                   | February, March, April       |
|           | M03041361 | COUNTRY ACRES MOBILE HOME PARK          | April                        |
|           | M03190267 | GRAND RIVER RESORT                      | May                          |
|           | M03201440 | THE OLD OAR HOUSE INN                   | May, April                   |
|           | M03210344 | DARS CAFE                               | September                    |
|           | M03210904 | LAKE HILLS MOTEL & RESTAURANT           | January, October, November   |
|           | M03241706 | ANGLERS CAMP                            | August, April                |
|           | M03242534 | FAIRFIELD RV PARK                       | April, May                   |
|           | M03290424 | WALKERS CORNER GROCERY                  | July                         |
|           | M04142183 | DUCK CREEK WILDLIFE AREA                | February, April, May         |
| BOLLINGER | M04024070 | BUTLER CO PWSD 1                        | October                      |
| BUTLER    | M04024072 | BUTLER CO PWSD 3                        | June                         |
|           | M04191461 | MILLERS MOTOR LODGE                     | April, May                   |
| CALLAWAY  | M03010535 | MOKANE WATER CO OP                      | February, March              |
|           | M03024084 | CALLAWAY CO PWSD 1                      | November                     |
| CAMDEN    | M03024091 | CAMDEN CO PWSD 2                        | November                     |
|           | M03031220 | SEVEN TRAILS WEST SUBD                  | August                       |
|           | M03031297 | ST MORITZ ON THE LAKE                   | June, July                   |
|           | M03031323 | GINGER COVE SUBDIVISION                 | July                         |
|           | M03036050 | KK WATER SUPPLY                         | November                     |
|           | M03190682 | ALHONNA RESORT                          | January                      |
|           | M03190688 | ROCKWOOD RESORT MOTEL LLC               | May                          |
|           | M03190763 | IRISH HILLS LAKESIDE RESORT LLC         | September                    |
|           | M03192148 | AQUA FIN CONDOMINIUMS                   | December                     |
|           | M03198238 | DOGWOOD HILLS RESORT INN                | October                      |
|           | M03212445 | MARINERS PIER 31 YACHT CLUB             | September                    |
|           | M03218001 | THE TRAIL HOUSE RESTAURANT              | July                         |
|           | M03218029 | CARDINAL COVE                           | August                       |
|           | M03218100 | FATTIES RENDEZVOUS                      | July                         |
|           | M03238024 | ST MORITZ ESTATES CONDO                 | August, September            |
|           | M05131428 | LAKE ACRES HOMEOWNERS IMPROVEMENT ASSOC | September                    |
|           | M05031601 | J BAR H ESTATES                         | January, May                 |
|           | M05122670 | LAKE OZARK STATE PARK OUTPOST           | September                    |
|           | M05193014 | SKYLINE MOTEL                           | November                     |
|           | M05202643 | DEER CHASE GOLF                         | July, August                 |



## I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County      | ID#       | System Name                            | Month(s)                              |
|-------------|-----------|--|---------------------------------------|
| DADE        | M05010331 | GREENFIELD                             | August, September, October            |
|             | M05010749 | SOUTH GREENFIELD                       | August                                |
|             | M05110193 | STOCKTON MUTTON CREEK MARINA EAST      | July                                  |
| CAMDEN      | M05212796 | BEAR BOTTOM RESORT                     | March, April, May June                |
|             | M05242992 | CAMPING PARADISE                       | February                              |
|             | M05243013 | MO TRAPSHOOTERS ASSOC GUN CLUB         | October                               |
|             | M05251596 | COFFMAN BEND 13 WATER                  | September                             |
|             | M05252973 | LEDGE STONE ESTATES HOA                | July, August                          |
| CAPE GIRARD | M04031453 | WESTLAKE MEADOWS SUBDIVISION           | January                               |
|             | M04048083 | PARKWOOD LAKE ESTATES                  | September                             |
|             | M04231318 | RON'S BUTCHER SHOP & GROCERY           | December                              |
|             | M04283006 | CLASS ACT FAMILY FITNESS               | May                                   |
| CARTER      | M04024109 | CARTER CO PWSD 2                       | December                              |
| CASS        | M01010061 | BELTON                                 | October                               |
|             | M01010301 | GARDEN CITY                            | May                                   |
|             | M01010649 | PLEASANT HILL                          | August                                |
| CEDAR       | M01024118 | CASS CO PWSD 9                         | September                             |
|             | M05010241 | EL DORADO SPRINGS                      | August                                |
|             | M05191320 | MT CARMEL INN                          | May, July                             |
|             | M05212752 | ORLEANS TRAIL RESTAURANT               | August                                |
|             | M05282827 | VIKINGS OFFICE BAR POST 129            | June                                  |
| CHARITON    | M05282846 | AMERICAN VETERANS POST 116             | August                                |
|             | M02010420 | KEYTESVILLE                            | September                             |
| CHRISTIAN   | M05010071 | BILLINGS                               | August                                |
|             | M05024134 | HIGHLANDVILLE                          | September                             |
|             | M05273003 | LIFEPOINT CHURCH                       | October                               |
| CLINTON     | M05282624 | SADDLEBROOKE VISITOR CENTER            | April                                 |
|             | M05282994 | SOMEPLACE ELSE                         | November                              |
|             | M01024156 | LINTON CO PWSD 4 SYS 1                 | September                             |
| COLE        | M03010831 | WARDSVILLE                             | April                                 |
|             | M03024164 | COLE CO PWSD 5                         | September                             |
|             | M03031301 | RED FIELD SUBDIVISION                  | September                             |
| CRAWFORD    | M03241399 | WHISPERING WINDS BIBLE CAMP            | July                                  |
|             | M04011491 | VILLAGE OF WEST SULLIVAN               | July, October, November               |
|             | M04242910 | LUCKY CLOVER CRAWFORD RIVER RESORT INC | June, July, August, September         |
|             | M06010200 | CUBA                                   | October                               |
|             | M06010457 | LEASBURG                               | March                                 |
| DADE        | M06010759 | STEELVILLE                             | March                                 |
|             | M05010331 | GREENFIELD                             | May, June, August, September, October |
|             | M05010749 | SOUTH GREENFIELD                       | August                                |
| DALLAS      | M05110193 | STOCKTON MUTTON CREEK MARINA EAST      | July                                  |
|             | M05041253 | MERITTS CAMPGROUND                     | June, July                            |
|             | M05210063 | FORT NIANGUA RIVER RESORT              | August                                |
|             | M05212821 | CAFE RESTAURANT                        | May                                   |
|             | M05292476 | RICHARDSON'S COUNTY LINE               | February                              |
| DAVIESS     | M01010010 | ALTAMONT                               | August                                |
| DEKALB      | M01010510 | MAYSVILLE                              | June                                  |
| DENT        | M04171148 | OAK HILL ELEM SCHOOL                   | September, October                    |
| DOUGLAS     | M05010040 | AVA                                    | April                                 |
|             | M05282625 | C L DISCOUNT GROCERY                   | July, August, September               |
| DUNKLIN     | M04048245 | BAKER MILLS MHP                        | January, July, October                |
| FRANKLIN    | M06010303 | GERALD                                 | August                                |

## I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County                           | ID#       | System Name                         | Month(s)                         |
|----------------------------------|-----------|-------------------------------------|----------------------------------|
| FRANKLIN                         | M06010303 | GERALD                              | September                        |
|                                  | M06031090 | LAURA MEADOWS APARTMENTS            | June                             |
|                                  | M06031215 | FRANKLIN CO PWSD 1 CARDINAL MEADOWS | June, July, August               |
|                                  | M06031237 | HAYFIELD WATER WORKS                | September                        |
|                                  | M06036128 | MIRAMIGUOA PARK                     | April                            |
|                                  | M06036139 | HERMIT HOLLOW SUBD                  | August                           |
|                                  | M06171159 | LONEDELL R XIV ELEM SCHOOL          | December                         |
| GASCONADE                        | M06241626 | CAMP MO VAL CAMP TAMBO              | September                        |
|                                  | M03191470 | LOST VALLEY LAKE RESORT             | September, October               |
|                                  | M06171595 | OWENSVILLE HIGH SCHOOL              | July                             |
|                                  | M06211503 | SILVER DOLLAR LOUNGE                | July, August, September          |
|                                  | M01024223 | GENTRY CO PWSD 1                    | October                          |
| GENTRY                           | M05010032 | ASH GROVE                           | February                         |
| GREENE                           | M05010681 | REPUBLIC                            | November                         |
|                                  | M05010829 | WALNUT GROVE                        | August                           |
|                                  | M05036094 | GREEN HILLS COUNTRY CLUB            | July                             |
|                                  | M05036187 | CROSS ROADS ACRES                   | March                            |
|                                  | M05122454 | NATHAN BOONE STATE HISTORICAL SITE  | June                             |
|                                  | M05161591 | RITTER SPRINGS PARK                 | October                          |
|                                  | M05182849 | JM & M INVESTMENTS                  | October                          |
|                                  | M05212683 | VIRGILS BAR & SELF STORAGE          | October, November, December      |
|                                  | M05258072 | KUM & GO 497                        | October                          |
|                                  | M05271587 | TEMPLE ISRAEL                       | May                              |
|                                  | M05272307 | NORTHWEST BAPTIST CHURCH            | November                         |
|                                  | M05272441 | AGAPE LIFE FELLOWSHIP               | August                           |
|                                  | M05272758 | WILSON CREEK BAPTIST CHURCH         | April                            |
|                                  | M05282754 | JD LEE & SONS FUNERAL HOME          | August                           |
|                                  | M05290086 | KUM & GO 498                        | October                          |
|                                  | M01031542 | OAKWOOD WATER ASSOCIATION           | April, May, June, July           |
|                                  | M05010197 | CROSS TIMBERS                       | December                         |
|                                  | M05021292 | PWSD 2 OF HICKORY CO                | August                           |
|                                  | M05036203 | LAKE FOREST SUBDIVISION             | July                             |
| HENRY<br>HICKORY                 | M05192686 | NEMO BRIDGE RESORT                  | July, August                     |
|                                  | M05251481 | WINDMILL POINT                      | June                             |
|                                  | M05251510 | KEN HAVEN SUBD                      | July                             |
|                                  | M05252773 | STARLIGHT LANE SUBDIVISION          | September, October               |
|                                  | M05252968 | POMME DE VILLA SUBDIVISION          | October                          |
|                                  | M05292918 | TNT QUICK SHOP                      | January, June, October, December |
|                                  | M01021304 | HOLT CO PWSD 1                      | July                             |
|                                  | M04021164 | HOWELL CO PWSD 3                    | November                         |
|                                  | M04171180 | BELLEVUE ELEM SCHOOL                | October                          |
|                                  | M05010004 | ALBA                                | August, December                 |
| HOLT<br>HOWELL<br>IRON<br>JASPER | M05010558 | NECK CITY                           | December                         |
|                                  | M05010665 | PURCELL                             | December                         |
|                                  | M05031602 | MALFUNCTION JUNCTION                | June, July                       |
|                                  | M05172883 | COVENANT WORLD OUTREACH             | April                            |
|                                  | M05180568 | MARS PETCARE US                     | May                              |
|                                  | M05180568 | MARS PETCARE US                     | July                             |
|                                  | M05180607 | DYNO NOBEL                          | January, February                |
|                                  | M05182965 | EBV-EEC EXPLOSIVES ENVIRONMENTAL CO | August, September, October       |
|                                  | M06024295 | JEFFERSON CO CONS PWSD C 1          | February                         |
|                                  | M06036028 | LAKE LORRAINE WATER CO              | May                              |

## I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County      | ID#       | System Name                               | Month(s)                 |
|-------------|-----------|---|--------------------------|
| JEFFERSON   | MO6036049 | LAKEWOOD HILLS SUBD                       | April                    |
|             | MO6048147 | LAUREL ACRES MHP                          | May, September, December |
|             | MO6180934 | RIVER CEMENT COMPANY                      | June                     |
|             | MO6240040 | CAMP CEDARLEDGE                           | July                     |
|             | MO6270498 | ST MARTINS UCC CHURCH                     | June, December           |
|             | MO6292691 | PRO STOP                                  | November, December       |
| LACLEDE     | MO5282611 | SIGN FAB INC                              | June                     |
| LAFAYETTE   | MO1010009 | ALMA                                      | August                   |
| LAWRENCE    | MO5010941 | FREISTATT                                 | October                  |
|             | MO5048105 | THE FINEST PLACE MHP                      | January, September       |
|             | MO5203000 | MILLER SCHOOL CARDINAL BASEBALL FIELD     | September                |
|             | MO5211348 | DONS CROSSROADS                           | August                   |
|             | MO5218165 | HONEYCREEK GOLF CLUB                      | September                |
|             | MO5231809 | THREE V CORPORATION                       | April                    |
|             | MO5272726 | FREEDOM CHRISTIAN CENTER                  | September                |
|             | MO6010866 | WINFIELD                                  | September                |
|             | MO6031324 | WESTMIER SUBDIVISION                      | June                     |
|             | MO6031357 | FAWN LAKES                                | October                  |
|             | MO6036217 | LAKEVIEW SUBD WATER SYSTEM                | September                |
|             | MO6182514 | NORTH TROY BUSINESS PARK                  | September                |
|             | MO6291625 | CASTLES GROCERY AND CAFE                  | June, November           |
| MADISON     | MO4010501 | MARQUAND                                  | December                 |
| MARIES      | MO3010054 | BELLE                                     | October                  |
|             | MO3191371 | MORELAND HOMEOWNERS ASSOCIATION           | May                      |
|             | MO4292847 | CROSSROADS CONVENIENCE STORE              | August                   |
| MCDONALD    | MO5010449 | LANAGAN                                   | September                |
|             | MO5182602 | GALLERY GRAPHICS INC                      | June, November           |
|             | MO5272723 | NEW LIFE FELLOWSHIP CHURCH                | November                 |
|             | MO5272955 | BUFFALO CREEK BAPTIST CHURCH              | June, July               |
| MERCER      | MO2024382 | MERCER CO PWSO 1                          | December                 |
| MILLER      | MO3010441 | LAKE OZARK                                | August                   |
|             | MO3010444 | LAKESIDE VILLAGE                          | January, February        |
|             | MO3010709 | ST ELIZABETH                              | July                     |
|             | MO3048243 | EAGLE MHP                                 | June, July               |
|             | MO3191296 | EL RANCHO TRAVEL CENTER                   | September                |
|             | MO3210828 | THE HUT                                   | October                  |
|             | MO3212296 | TOOTERS SALOON & STEAKHOUSE               | May, June, October       |
|             | MO3231548 | LAKE VILLAGE SUBD MILLER WELL OWNERS ASSN | September                |
|             | MO3240814 | NORTH SHORE RV PARK AND CAMPGROUND        | April, June              |
|             | MO3241749 | CAMP BAGNELL                              | July                     |
|             | MO3292544 | MERTENS MINI MART 8                       | September                |
|             | MO5031430 | SUNSET MHP                                | June                     |
| MISSISSIPPI | MO4048066 | MERRYWEATHER MEADOWS                      | January, July, August    |
| MONITEAU    | MO3010124 | CALIFORNIA                                | August                   |
| MONTGOMERY  | MO3291410 | DANVILLE SINCLAIR                         | August                   |
|             | MO6010521 | MIDDLETOWN                                | October                  |
|             | MO6010565 | NEW FLORENCE                              | July                     |
| MORGAN      | MO3010767 | STOVER                                    | January                  |
|             | MO3024413 | LAURIE                                    | September                |
|             | MO3031345 | OKLATERRE MOBILE HOME PARK                | October                  |
|             | MO3031365 | TIMBERLAKE MASTER ASSOCIATION INC         | December                 |

## I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County   | ID#       | System Name                        | Month(s)               |
|----------|-----------|------------------------------------|------------------------|
| MORGAN   | M03190822 | THE ANCHORAGE PUB & MHP            | May                    |
|          | M03202562 | ROLLING HILLS COUNTRY CLUB         | June, July, August     |
|          | M03212558 | LEHMANS RESTAURANT                 | May                    |
|          | M03240046 | WONDERLAND CAMP                    | June                   |
|          | M03252169 | LUCKY POINT                        | February               |
|          | M03252600 | OSAGE COMMUNITY ELKS LODGE 2705    | October                |
|          | M05192693 | AQUA VITAE ESTATES                 | July                   |
|          | M05212905 | VINNYS CAFE AND LOUNGE             | June, July             |
|          | M05212933 | TRAFFIC JAM                        | March                  |
|          | M05252728 | MOFFETT SUBDIVISION                | July                   |
| NEWTON   | M05252990 | WASHBURN POINT SUBDIVISION         | July, October          |
|          | M05170238 | JESUS NAME PENTECOSTAL CHURCH      | September              |
|          | M05172890 | TRINITY LEARNING CENTER            | January, February      |
|          | M05211212 | CJS CAFE                           | May                    |
|          | M05212102 | MC DONALDS 8201                    | March                  |
|          | M05241139 | MINTAHAMA PROGRAM CENTER           | June                   |
|          | M05241734 | KOA CAMPGROUND                     | July                   |
| NODAWAY  | M01010508 | MARYVILLE                          | May                    |
| OREGON   | M04171266 | COUCH R 1 SCHOOL                   | September              |
| OSAGE    | M02172928 | LITTLE EINSTEIN LEARNING CTR       | June                   |
|          | M03010517 | META                               | April                  |
| OZARK    | M05010297 | GAINESVILLE                        | September              |
|          | M05190867 | TWIN FORKS RESORT                  | September              |
|          | M05212897 | RUSTY RAIL PUB                     | August                 |
|          | M05292331 | ROYS STORE                         | January, July          |
|          | M05292636 | MILLERS ONE STOP                   | July                   |
| PEMISCOT | M04010143 | CARUTHERSVILLE                     | November               |
|          | M04010758 | STEELE                             | June                   |
|          | M04010830 | WARDELL                            | August                 |
| PERRY    | M04036202 | LAKE KAH TAN DA ESTATES INC        | June, August           |
| PETTIS   | M01041587 | WOOLERY MHP J                      | April, May, June, July |
|          | M03010386 | HUGHESVILLE                        | November               |
|          | M03036105 | MONSEES LAKE ESTATES               | July                   |
|          | M03048254 | CRESTVIEW MHP                      | June                   |
|          | M03048254 | CRESTVIEW MHP                      | May                    |
|          | M03120151 | BOTHWELL LODGE STATE HISTORIC SITE | May, August            |
|          | M03190893 | BUDGET HOST SUPER 7 MOTEL          | May                    |
| PHELPS   | M03010712 | ST JAMES                           | December               |
|          | M03010887 | NEWBURG                            | April                  |
|          | M03069014 | FERNDAL RESIDENTIAL CARE II        | May, October           |
|          | M03190089 | THE JAMES FOUNDATION               | July                   |
|          | M03212546 | ZENOS MOTEL & STEAKHOUSE           | September              |
|          | M04242857 | LITTLE PRAIRIE BIBLE CAMP          | June                   |
|          | M05031605 | BYBEE ESTATES                      | May, June              |
| POLK     | M05258125 | CASES CORNER LLC                   | January                |
| PULASKI  | M03010684 | RICHLAND                           | September              |
|          | M03024490 | PULASKI CO PWSD 1                  | April                  |
|          | M03024491 | PULASKI CO PWSD 2                  | October                |
| REYNOLDS | M04180666 | DOE RUN COMPANY BRUSHY CREEK       | July                   |
|          | M04190139 | TWIN RIVERS LANDING                | July, August           |
|          | M04190874 | BLACK RIVER LODGE INC              | June                   |
| SCOTT    | M04010604 | ORAN                               | June                   |



|             |           |                                   |   |
|-------------|-----------|-----------------------------------|---|
| SHANNON     | M03212558 | LEHMANS RESTAURANT                | May   |
|             | M04248525 | JASON PLACE CAMPGROUND            | July  |
| ST CHARLES  | M06010287 | ST CHARLES PWSD 2 FORISTELL       | September                                     |
|             | M06036022 | PRAIRIE VIEW ACRES SUBD           | August  |
| ST CLAIR    | M05010480 | LOWRY CITY                        | October, November, December                   |
| ST FRANCOIS | M04010270 | FARMINGTON                        | October                                       |
|             | M04120167 | ST FRANCOIS STATE PARK            | June  |
|             | M04170524 | MOTHER GOOSE DAY CARE CENTER      | October                                       |
|             | M04211557 | C B JOES BBQ                      | January, June                                 |
|             | M04212885 | RUMRUNNERS                        | July  |
|             | M04218516 | MOORES FARM                       | November                                      |
| ST LOUIS    | M06202395 | LONE ELK COUNTY PARK              | June  |
|             | M06282400 | TYSON RESEARCH CENTER             | June  |
| STE GENEVIE | M04010718 | ST MARY                           | June, September, October                      |
|             | M04036146 | LAKE FOREST ESTATES               | September                                     |
| STONE       | M04212833 | CROWN RIDGE RESTAURANT            | January, February, March                      |
|             | M05030870 | COUNTRY TIME ESTATES              | August, September                             |
|             | M05031127 | COOL WATER COVE WATER WELL ASSN   | May, June, July, September, October, November |
|             | M05031145 | STONE MANOR SUBDIVISION           | February, April, November                     |
|             | M05031172 | CAPS COVE SUBD                    | July  |
|             | M05031492 | GRAND CRU AT THE LAKE SUBDIVISION | May   |
|             | M05031526 | OAKWOOD HOMEOWNERS ASSOCIATION    | August, September                             |
|             | M05041140 | AUNTS CREEK DEV 1ST ADD           | June  |
|             | M05100028 | USFS BIG BAY CAMPGROUND           | June, July, September                         |
|             | M05112267 | TABLE ROCK INDIAN POINT 114       | September                                     |
|             | M05190982 | WISHWOOD RESORT                   | September                                     |
|             | M05191453 | VILLAGE AT INDIAN POINT           | July  |
|             | M05212501 | BEARDED CLAM RESTAURANT           | August  |
|             | M05212976 | CAPE FAIR MARINA                  | May, June                                     |
|             | M05238059 | TABLE ROCK SPORTSMENS CLUB        | June  |
|             | M05240131 | TABLE ROCK LAKE CAMPGROUND        | June, July                                    |
|             | M05252173 | GLEN OAKS SUBD                    | October                                       |
|             | M05258070 | STARRLITE VILLAGE 4TH ADDITION    | May   |
|             | M05258136 | PARMESANS PIZZERIA                | September                                     |
| TANEY       | M05024599 | TANEY CO PWSD 1                   | December                                      |
|             | M05036180 | TANEY CO WATER LLC - VENICE       | November                                      |
|             | M05070611 | BRANSON EAST APARTMENTS           | July, August, September, October              |
|             | M05191004 | EDGEWATER BEACH RESORT            | March, July                                   |
|             | M05191008 | VICKERY RESORT MOTEL              | August  |
|             | M05218056 | SENIOR FRIENDSHIP SITE            | October, November                             |
|             | M05240145 | CLEVENGER BRANCH MEMBERS CORP     | August  |
|             | M05240231 | BRANSON STAGECOACH                | September                                     |
|             | M05282768 | BRANSON CEDARS RESORT             | June  |
|             | M05292494 | WILD BILLS TRAVEL CENTER          | July, August                                  |
| TANEY       | M05292575 | RAPID ROBERTS 121                 | October, November                             |
| TEXAS       | M04211081 | EL RANCHO TRUCK PLAZA             | June  |
| WARREN      | M06048356 | PLEASANT OAK MHP                  | August  |
|             | M06180571 | WARCO MANUFACTURING CO            | July  |
| WASHINGTON  | M04036311 | ANTHONIES MILL RESORT SUBDIVISION | August, July                                  |
|             | M04040230 | HARPER VALLEY TRAILER PARK        | July  |
|             | M04172753 | ST JOACHIM SCHOOL                 | November, October                             |
|             | M04212819 | OZARK FREEZE RESTAURANT           | January, February                             |

## I. Coliform MCL Violations (continued)

The following systems had two or more samples test positive for total coliform bacteria in the months indicated. The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

| County     | ID#       | System Name                      | Month(s)                           |
|------------|-----------|----------------------------------|------------------------------------|
| MORGAN     | M03190822 | THE ANCHORAGE PUB & MHP          | May                                |
|            | M03202562 | ROLLING HILLS COUNTRY CLUB       | June, July, August                 |
| WASHINGTON | M04212819 | OZARK FREEZE RESTAURANT          | June                               |
|            | M06010659 | POTOSI                           | July                               |
|            | M06024633 | WASHINGTON CO PWSD 1             | January, June, July, August        |
|            | M06069096 | POTOSI EAST                      | January, February                  |
|            | M06120173 | WASHINGTON STATE PARK            | June                               |
|            | M06171236 | KINGSTON K 14 SCHOOL DISTRICT    | November                           |
| WAYNE      | M04024637 | WAYNE CO PWSD 1                  | September                          |
|            | M04112033 | WAPPAPELLO RES HOLLIDAY LANDING  | June                               |
|            | M04198545 | TWIN OAKS RESORT                 | June                               |
| WEBSTER    | M05183004 | MID AM METAL FORMING INC         | July, September, October, November |
|            | M05208114 | WILD ANIMAL SAFARI INC           | January, February, June            |
|            | M05272948 | DIGGINS APOSTOLIC CHURCH         | June                               |
|            | M05281419 | CROSSCUT HOME CENTER             | August                             |
|            | M05281419 | CROSSCUT HOME CENTER             | May                                |
| WRIGHT     | M05010585 | NORWOOD                          | July                               |
|            | M05171242 | MANES R V ELEM SCHOOL            | September, October                 |
|            | M05218161 | MOUNTAIN GROVE CHRISTIAN ACADEMY | August                             |

## II. Chemical MCL Violations

| County     | Id#       | System Name                  | Chemical                      |
|------------|-----------|------------------------------|-------------------------------|
| ADAIR      | M02010429 | KIRKSVILLE                   | CHLORITE                      |
| AUDRAIN    | M02010812 | VANDALIA                     | TOTAL TRIHALOMETHANES (TTHM)  |
| BARTON     | M05010446 | LAMAR                        | TOTAL TRIHALOMETHANES (TTHM)  |
| BATES      | M01024031 | BATES CO PWSD 2              | TOTAL HALOACETIC ACIDS (HAA5) |
|            | M01024031 | BATES CO PWSD 2              | TOTAL TRIHALOMETHANES (TTHM)  |
| BUTLER     | M04010656 | POPLAR BLUFF TOTAL           | HALOACETIC ACIDS (HAA5)       |
| CALDWELL   | M01010099 | BRECKENRIDGE TOTAL           | HALOACETIC ACIDS (HAA5)       |
|            | M01010099 | BRECKENRIDGE                 | TOTAL TRIHALOMETHANES (TTHM)  |
|            | M01010342 | HAMILTON                     | TOTAL TRIHALOMETHANES (TTHM)  |
| CASS       | M01010225 | DREXEL                       | ATRAZINE                      |
|            | M01010301 | GARDEN CITY                  | TOTAL TRIHALOMETHANES (TTHM)  |
| CLAY       | M01010466 | LIBERTY                      | TOTAL TRIHALOMETHANES (TTHM)  |
| DAVISS     | M01036130 | DAVISS CO PWSD 3             | TOTAL TRIHALOMETHANES (TTHM)  |
| DEKALB     | M01010510 | MAYSVILLE                    | TOTAL TRIHALOMETHANES (TTHM)  |
| GENTRY     | M01070639 | MIDDLE FORK WATER CO         | TOTAL TRIHALOMETHANES (TTHM)  |
| GRUNDY     | M02010796 | TRENTON MUNICIPAL UTILITIES  | TOTAL TRIHALOMETHANES (TTHM)  |
| HARRISON   | M01024242 | HARRISON CO PWSD 2           | TOTAL TRIHALOMETHANES (TTHM)  |
| JEFFERSON  | M06071352 | JEFFERSON CO WATER AUTHORITY | TOTAL TRIHALOMETHANES (TTHM)  |
| LAFAYETTE  | M01010599 | ODESSA                       | TOTAL TRIHALOMETHANES (TTHM)  |
| LINCOLN    | M06024340 | LINCOLN CO PWSD 1            | FLUORIDE                      |
|            | M06031217 | TIMBER RIDGE ESTATES         | FLUORIDE                      |
| LINN       | M02010112 | BUCKLIN                      | TOTAL HALOACETIC ACIDS (HAA5) |
| MONTGOMERY | M06010848 | WELLSVILLE                   | TOTAL HALOACETIC ACIDS (HAA5) |
|            | M06010848 | WELLSVILLE                   | TOTAL TRIHALOMETHANES (TTHM)  |
| NEWTON     | M05041190 | RAINES MHP                   | TOTAL HALOACETIC ACIDS (HAA5) |
| PIKE       | M02010479 | LOUISIANA                    | TOTAL HALOACETIC ACIDS (HAA5) |
|            | M02010479 | LOUISIANA                    | TOTAL TRIHALOMETHANES (TTHM)  |
| SHELBY     | M02010736 | SHELBINA                     | TOTAL HALOACETIC ACIDS (HAA5) |

### III. Radiological MCL

| County         | ID#       | System Name                        | Chemical  |
|----------------|-----------|------------------------------------|---|
| CAPE GIRARDEAU | MO4031453 | WESTLAKE MEADOWS SUBDIVISION       | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
| IRON           | MO4036256 | KILLARNEY SHORES SUBD              | COMBINED RADIUM (-226 & -228)                                 |
| LINCOLN        | MO6010798 | TROY                               | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
| MCDONALD       | MO5010449 | LANAGAN                            | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
|                | MO5010645 | PINEVILLE                          | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
|                | MO5021168 | MCDONALD CO PWSD 3                 | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
| MONTGOMERY     | MO6010521 | MIDDLETOWN                         | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
| ST FRANCOIS    | MO4010087 | BONNE TERRE                        | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
|                | MO4010270 | FARMINGTON                         | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
|                | MO4021451 | PILOT KNOB RURAL WD 1 DOE RUN AREA | COMBINED RADIUM (-226 & -228)                                 |
|                | MO4031206 | HUNTERS RIDGE SUBD                 | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
|                | MO4036059 | TERRE DU LAC                       | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
|                | MO4041308 | WALNUT GROVE MHP                   | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
|                | MO4048064 | TOWN & COUNTRY MOBILE HOME PARK    | COMBINED RADIUM (-226 & -228)                                 |
|                | MO4069041 | FARMINGTON CORRECTIONAL CENTER     | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |
| ST LOUIS       | MO6010258 | EUREKA                             | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
| VERNON         | MO5010104 | BRONAUGH                           | COMBINED RADIUM (-226 & -228)<br>GROSS ALPHA, EXCL. RADON & U |
|                | MO5024616 | VERNON CO PWSD 1                   | COMBINED RADIUM (-226 & -228)                                 |
| WASHINGTON     | MO4011123 | MINERAL POINT                      | GROSS ALPHA, EXCL. RADON & U<br>COMBINED RADIUM (-226 & -228) |

#### IV. Surface Water

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements. In the months or annual period indicated.

| County      | Id#       | System Name        | Period                   | Violation                          |
|-------------|-----------|--------------------|--------------------------|------------------------------------|
| BATES       | MO1010001 | ADRIAN             | February                 | Combined Filter Effluent Turbidity |
| CALDWELL    | MO1010099 | BRECKENRIDGE       | 2nd Quarter              | Inadequate DBP Precursor Removal   |
|             |           |                    | March, July              | Combined Filter Effluent Turbidity |
| CALDWELL    | MO1010342 | HAMILTON           | August, December, July   | Combined Filter Effluent Turbidity |
| CLARK       | MO2010875 | WYACONDA           | January, February, March | Combined Filter Effluent Turbidity |
| CLAY        | MO1010748 | SMITHVILLE         | June, July, August       | Combined Filter Effluent Turbidity |
| DEKALB      | MO1010510 | MAYSVILLE          | May, August              | Combined Filter Effluent Turbidity |
| HARRISON    | MO1024241 | HARRISON CO PWSD 1 | 4th Quarter              | Inadequate DBP Precursor Removal   |
| MONTGOMERY  | MO6010848 | WELLSVILLE         | 1st, 2nd, 3rd Quarter    | Inadequate DBP Precursor Removal   |
| NODAWAY     | MO1010508 | MARYVILLE          | 1st, 2nd Quarter         | Inadequate DBP Precursor Removal   |
| ST FRANCOIS | MO4240120 | S F SCOUT RANCH    | May                      | Combined Filter Effluent Turbidity |



## Appendix B

### Chronic Major Monitoring

The following systems had three or more major violations of the Total Coliform Rule in 2010 and have been listed on previously issued news releases for chronic monitoring violations.

| County      | System Name                          | PWS ID #  | Months  |
|-------------|--------------------------------------|-----------|---|
| BARRY       | COUNTRY DINER                        | M05212453 | January, February, March, April   |
| BENTON      | COLONY BAPTIST CHURCH                | M03270290 | May, July, August, October  |
|             | HIDDEN VALLEY MHP                    | M03262156 | January, February, March, April, May, June, August, September, October November, December       |
|             | MM CAFE                              | M01212807 | January, February, April, June, November, December  |
|             | SUN VALLEY SUBDIVISION               | M03031366 | January, February, March, April, May, June, July, August September, October, November, December |
|             | T T CAMPGROUND                       | M01242804 | January, February, March, April, May, June, July August, September, October, November, December |
| CAMDEN      | 54 DINER                             | M03211098 | January, February, May, August, November  |
|             | CROSSROADS CAFE AND C STORE          | M05212785 | January, February, March, April, May, June  |
|             | KELLEYS LANDING                      | M03190038 | April, May, July, August  |
|             | KNOOKERS                             | M03282315 | October, November, December   |
|             | MARINERS PIER 31 YACHT CLUB          | M03212445 | May, June, July   |
|             | PIT STOP CAFE                        | M05212834 | February, April, June, July   |
| CEDAR       | BOAT HOUSE RESTAURANT & LOUNGE       | M05212832 | January, February, May, June, November  |
| DALLAS      | FRATERNAL ORDER OF EAGLE 4010        | M05218054 | July, October, November   |
|             | HO HUMM CAMPGROUND                   | M05240083 | May, June, July, August   |
|             | THE RAIL MDV AUXILIARY CLUB # 99     | M05282882 | January, June, July, August, September, October, November, December                             |
| GREENE      | SPRINGFIELD LIVESTOCK MARKETING CTR  | M05282587 | January, March, May, June   |
| HENRY       | MONTROSE                             | M01010541 | March, October, November  |
| JASPER      | COACHLIGHT RV PARK                   | M05202945 | May, June, July, August, September  |
|             | FLYIN W CONVENIENCE STORE            | M05258080 | March, April, November, December  |
|             | KUM & GO 29                          | M05292802 | March, May, July  |
| JEFFERSON   | VALLE ACRES MHP                      | M06048208 | March, April, July, October   |
| LAWRENCE    | BAUMERS FOOD MART                    | M05292361 | January, March, August  |
| MARIES      | MORELANDS CATFISH PATCH & STEAKHOUSE | M03211025 | February, March, June, October, November December   |
| MILLER      | CEDAR JUNCTION                       | M05292911 | February, May, July   |
|             | OLD TOWN OSAGE                       | M05212967 | April, May, July  |
|             | SUNSET MHP                           | M05031430 | January, February, March, April, May, August September, October, November, December             |
| MISSISSIPPI | MERRYWEATHER MEADOWS                 | M04048066 | March, April  |
| NEWTON      | BACK ROADS                           | M05211719 | April, September, December  |
|             | BELIEVERS FAITH FELLOWSHIP           | M05272989 | January, February, March, May, June, July, August September, October, November, December        |
|             | RACINE 1 STOP                        | M05291658 | February, March, May, June  |

## Appendix B (Continued)

### Chronic Major Monitoring

The following systems had three or more major violations of the Total Coliform Rule in 2010 and have been listed on previously issued news releases for chronic monitoring violations.

| County     | System Name               | PWS ID #  | Months  |
|------------|---------------------------|-----------|---|
| OZARK      | RUSTY RAIL PUB            | M05212897 | January, February, March, April, May  |
| OZARK      | THUNDER BAY RESORT        | M05191676 | May, June, August   |
| POLK       | CASES CORNER LLC          | M05258125 | February, March, May  |
| PULASKI    | RIVER ROCK GRILL          | M03211505 | January, April  |
| ST CHARLES | EMMANUEL UNITED CHURCH OF | M06270501 | January, July, August, October, November  |
| STONE      | CROSS ROADS STORE         | M05292589 | January, May, July  |
|            | JONES COVE SUBDIVISION    | M05252981 | January, February, March, April, May, August  |
|            | STARLIGHT VILLAGE         | M05030473 | January, February, April, May, June   |
|            | THE LAKE HOUSE            | M05282679 | March, May, July  |
| TANEY      | EAST FORK SUBDIVISION     | M05031597 | January, February, April, May, June, July, August<br>September, October, November, December |
|            | GDM INVESTMENT PROJECT    | M05182954 | January, February, April, May, June, July, August<br>November, December                     |
|            | PARKVIEW LODGE            | M05191005 | May, July, September, October   |
|            | SPRING CREEK 2ND ADD      | M05030391 | February, May, August, September  |
| WASHINGTON | L & M MOBILE HOME PARK    | M04041275 | January, February, March, April, May, June<br>July, August, September                       |
| WRIGHT     | MANES CAFE                | M05212760 | January, February, March, April, May, June  |
|            | MOUNTAIN GROVE CHRISTIAN  | M05218161 | February, March, April, June, July, September<br>October, December                          |

## Appendix C

### Major Repeat Monitoring Violations

The following systems had major repeat monitoring violations for the months listed. A major repeat monitoring violation occurs when a routine sample tests positive for total coliform bacteria and that system fails to submit any follow-up, or repeat, samples as required.

| County        | ID#       | System Name                       | Month(s)  |
|---------------|-----------|-----------------------------------|-----------|
| BARRY         | M05282767 | VFW POST 4207                     | August    |
| CAMDEN        | M03190038 | KELLEYS LANDING                   | April     |
| CAMDEN        | M03238024 | ST MORITZ ESTATES CONDO           | April     |
| CHRISTIAN     | M05282994 | SOMEPLACE ELSE                    | December  |
| CHRISTIAN     | M05291585 | COWBOY CORRAL                     | November  |
| DALLAS        | M05010807 | URBANA                            | June      |
| DALLAS        | M05282882 | THE RAIL MDV AUXILIARY CLUB # 99  | January   |
| FRANKLIN      | M06048153 | MAPLE HILL PARK                   | April     |
| GREENE        | M05048107 | COUNTRY SQUIRE VILLAGE            | February  |
| HENRY         | M01010865 | WINDSOR                           | February  |
| HICKORY       | M05036203 | LAKE FOREST SUBDIVISION           | June      |
|               | M05252968 | POMME DE VILLA SUBDIVISION        | April     |
| JASPER        | M05041599 | PLEASANT VALLEY MHP               | August    |
| JEFFERSON     | M06292691 | PRO STOP                          | October   |
| LAWRENCE      | M05212358 | ROUTE 66 TAVERN                   | December  |
|               | M05212358 | ROUTE 66 TAVERN                   | June      |
| MILLER        | M03190811 | SHADY OAKS RESORT                 | July      |
|               | M03212296 | TOOTERS SALOON & STEAKHOUSE       | December  |
|               | M03292544 | MERTENS MINI MART 8               | August    |
| MISSISSIPPI   | M04048066 | MERRYWEATHER MEADOWS              | March     |
| MORGAN        | M03211305 | PAINTED PONY                      | February  |
| NEWTON        | M05041190 | RAINES MHP                        | January   |
|               | M05048225 | BIG VALLEY PARK MHP               | August    |
|               | M05212860 | COUNTRY TAVERN                    | July      |
|               | M05291658 | RACINE 1 STOP                     | June      |
| OZARK         | M05211086 | THE GRAPEVINE                     | June      |
| ST LOUIS      | M06069092 | WYMAN                             | May       |
| STE GENEVIEVE | M04212833 | CROWN RIDGE RESTAURANT            | March     |
| STONE         | M05030473 | STARLIGHT VILLAGE                 | July      |
|               | M05031120 | SECURITY ACRES                    | June      |
|               | M05036145 | LEISURE SHORES UNIT 2             | January   |
|               | M05190988 | DOUBLE OAK RESORT                 | August    |
|               | M05238311 | DOGWOOD VALLEY ESTATES            | August    |
|               | M05252981 | JONES COVE SUBDIVISION            | May       |
|               | M05272979 | TALKING ROCKS ROAD BAPTIST CHURCH | September |
| WEBSTER       | M05010734 | SEYMOUR                           | August    |
| WRIGHT        | M05218161 | MOUNTAIN GROVE CHRISTIAN ACADEMY  | December  |

## Appendix D

### Significant Non-Compliers

The following systems had been deemed Significant Non-Compliers for 2010. These are the systems with serious violations that potentially affect public health or with multiple monitoring violations.

| County         | PWS ID #  | Name                            | Rule                          |
|----------------|-----------|---------------------------------|-------------------------------|
| ADAIR          | MO2010587 | NOVINGER                        | Consumer Confidence Report    |
| AUDRAIN        | MO2010438 | LADDONIA                        | Consumer Confidence Report    |
| BARRY          | MO5031340 | SWEETWATER BEACH SUBD           | Consumer Confidence Report    |
| BATES          | MO1024031 | BATES CO PWSD 2                 | TTHM                          |
| BATES          | MO1024031 | BATES CO PWSD 2                 | TOTAL HALOACETIC ACIDS (HAA5) |
| BATES          | MO1010698 | ROCKVILLE                       | Consumer Confidence Report    |
| BENTON         | MO3036123 | BLUE BRANCH IMPROVEMENT ASS INC | TCR                           |
|                | MO1212833 | DIANTHAS COUNTRY KITCHEN        | Nitrate                       |
|                | MO3031321 | DOCS RETREAT UNIT 1             | Consumer Confidence Report    |
|                | MO3262156 | HIDDEN VALLEY MHP               | Consumer Confidence Report    |
|                | MO3262156 | HIDDEN VALLEY MHP               | Nitrate                       |
|                | MO3262156 | HIDDEN VALLEY MHP               | TCR                           |
|                | MO3040761 | LAKE HILLS MH/RV PARK           | Consumer Confidence Report    |
|                | MO1212807 | MM CAFE                         | TCR                           |
|                | MO3031366 | SUN VALLEY SUBDIVISION          | Consumer Confidence Report    |
|                | MO3031366 | SUN VALLEY SUBDIVISION          | TCR                           |
|                | MO1242804 | T T CAMPGROUND                  | TCR                           |
|                | MO4010496 | MARBLE HILL NORTH               | Consumer Confidence Report    |
|                | MO4010483 | MARBLE HILL SOUTH               | Consumer Confidence Report    |
| BUTLER         | MO4010656 | POPLAR BLUFF TOTAL              | HALOACETIC ACIDS (HAA5)       |
| CALDWELL       | MO1010099 | BRECKENRIDGE TOTAL              | HALOACETIC ACIDS (HAA5)       |
|                | MO1024078 | CALDWELL CO PWSD 1              | Consumer Confidence Report    |
|                | MO1010342 | HAMILTON                        | TTHM                          |
| CALLAWAY       | MO3041238 | HATTON HILLS MHP                | Consumer Confidence Report    |
| CAMDEN         | MO5212796 | BEAR BOTTOM RESORT              | TCR                           |
|                | MO3024090 | CAMDEN CO PWSD 1                | Consumer Confidence Report    |
|                | MO5021438 | CAMDEN CO PWSD 3                | Consumer Confidence Report    |
|                | MO3302557 | CLEARWATER CONDOMINIUMS         | Consumer Confidence Report    |
|                | MO5212785 | CROSSROADS CAFE AND C STORE     | TCR                           |
|                | MO3301350 | FOUNTAIN VIEW LANDING           | Consumer Confidence Report    |
|                | MO3036078 | FOXHEAD SHORES                  | Consumer Confidence Report    |
|                | MO3036354 | HAWK ISLAND ESTATES             | Consumer Confidence Report    |
|                | MO3202324 | LAKE OZARK RECREATION AREA      | Nitrate                       |
|                | MO3031208 | MAKALU ESTATES                  | Consumer Confidence Report    |
|                | MO3030981 | MINNOWBROOK ESTATES             | Consumer Confidence Report    |
|                | MO5031544 | OAK SHADOWS SUBDIVISION         | Consumer Confidence Report    |
|                | MO3282326 | PARK PLACE MASTER ASSN          | Consumer Confidence Report    |
|                | MO3030474 | ROBYN POINT                     | Consumer Confidence Report    |
|                | MO3031242 | SERENITY BAY SUBD               | Consumer Confidence Report    |
|                | MO3031220 | SEVEN TRAILS WEST SUBD          | Consumer Confidence Report    |
|                | MO3031257 | SUMMER PLACE ON THE LAKE        | Consumer Confidence Report    |
|                | MO3031280 | SYLVAN BAY SUBDIVISION          | Consumer Confidence Report    |
|                | MO3238097 | THE FALLS CONDOMINIUMS          | Consumer Confidence Report    |
|                | MO5021546 | TIMBERLAKE TERRACE              | Consumer Confidence Report    |
|                | MO5301390 | TUSCANY CONDOMINIUMS            | Consumer Confidence Report    |
| CAPE GIRARDEAU | MO4024097 | CAPE GIRARDEAU CO PWSD 2        | Consumer Confidence Report    |
| CASS           | MO1010225 | DREXEL                          | Atrazine                      |
| CHRISTIAN      | MO5031578 | MC GINNIS ESTATES SUB           | Lead                          |

## Appendix D (Continued)

### Significant Non-Compliers

The following systems had been deemed Significant Non-Compliers for 2010. These are the systems with serious violations that potentially affect public health or with multiple monitoring violations.

| County      | PWS ID #    | Name                                  | Rule                                      |
|-------------|-------------|---------------------------------------|---|
| CLAY        | MO1010466   | LIBERTY                               | TTHM                                      |
| CRAWFORD    | MO4242910   | LUCKY CLOVER RIVER RESORT INC         | TCR                                       |
| DADE        | MO5010025   | ARCOLA                                | Consumer Confidence Report                |
| DADE        | MO5010331   | GREENFIELD                            | TCR                                       |
| DALLAS      | MO5282882   | THE RAIL MDV AUXILIARY CLUB # 99      | TCR                                       |
| DAVISS      | MO1036130   | DAVISS CO PWSD 3                      | TTHM                                      |
| DEKALB      | MO1010510   | MAYSVILLE                             | TTHM                                      |
| FRANKLIN    | MO6036323   | FOXBORO SUBDIVISION                   | Consumer Confidence Report                |
|             | MO6048164   | KINGSWAY MHP                          | Consumer Confidence Report                |
|             | MO6036269   | WOODLAND HILLS SUBD                   | Consumer Confidence Report                |
| GASCONADE   | MO6010544   | MORRISON                              | Consumer Confidence Report                |
| GREENE      | MO5031325   | GOLDEN OAK VILLAGE SUBD               | Lead                                      |
|             | MO5048400   | SUBURBAN ACRES MOBILE HOME PARK       | Nitrate                                   |
| GRUNDY      | MO2010796   | TRENTON MUNICIPAL UTILITIES           | TTHM                                      |
| HENRY       | MO1031542   | OAKWOOD WATER ASSOCIATION             | TCR                                       |
| HICKORY     | MO5292918   | TNT QUICK SHOP                        | TCR                                       |
| HOWARD      | MO2010028   | ARMSTRONG Consumer Confidence         | Report                                    |
| JEFFERSON   | MO6071352   | EFFERSON COUNTY WATER AUTHORITY       | TTHM                                      |
|             | MO6036053   | SEVEN SPRINGS SUBD                    | Consumer Confidence Report                |
| LACLEDE     | MO5024318   | LACLEDE CO PWSD 2                     | Consumer Confidence Report                |
| LAWRENCE    | MO5272726   | FREEDOM CHRISTIAN CENTER              | Lead                                      |
| LINCOLN     | MO6031357   | FAWN LAKES                            | Consumer Confidence Report                |
| MARIES      | MO3211025   | MORELANDS CATFISH PATCH & STEAK HOUSE | TCR                                       |
| MILLER      | MO5301479   | ISLA DEL SOL                          | Consumer Confidence Report                |
|             | MO3079537   | OSAGE RIDGE APTS                      | Consumer Confidence Report                |
|             | MO5031430   | SUNSET MHP                            | TCR, Consumer Confidence Report           |
| MILLER      | MO3212296   | TOOTERS SALOON & STEAKHOUSE           | TCR                                       |
| MISSISSIPPI | MO4048066   | MERRYWEATHER MEADOWS                  | TCR                                       |
| MONTGOMERY  | MO3011121 R | HINELAND                              | Consumer Confidence Report                |
|             | MO6010848   | WELLSVILLE                            | TOTAL HALOACETIC ACIDS (HAA5), TTHM       |
| MORGAN      | MO3202562   | ROLLING HILLS COUNTRY CLUB            | TCR                                       |
| NEW MADRID  | MO4024419   | NEW MADRID CO PWSD 5                  | Consumer Confidence Report                |
| NEWTON      | MO5272989   | BELIEVERS FAITH FELLOWSHIP            | TCR                                       |
|             | MO5291658   | RACINE 1 STOP                         | TCR                                       |
|             | MO5041190   | RAINES MHP TOTAL                      | HALOACETIC ACIDS (HAA5)                   |
| OSAGE       | MO2172928   | LITTLE EINSTEIN LEARNING CTR          | Lead                                      |
| OZARK       | MO5212897   | RUSTY RAIL PUB                        | TCR                                       |
| PETTIS      | MO1041587   | WOOLERY MHP                           | TCR                                       |
| PHELPS      | MO3048118   | NORTHWYE MHP                          | Consumer Confidence Report                |
| PIKE        | MO2010479   | LOUISIANA                             | TTHM                                      |
| POLK        | MO5041146   | VALLEY VIEW ACRES                     | Consumer Confidence Report                |
| PULASKI     | MO3010684   | RICHLAND                              | Consumer Confidence Report                |
| SCHUYLER    | MO2070133   | LIBERTY PRAIRIE WATER CO              | Consumer Confidence Report                |
| ST FRANCOIS | MO4010270   | FARMINGTON                            | Combined RADS, GA                         |
|             | MO4036059   | TERRE DU LAC                          | Consumer Confidence Report, Combined RADS |
|             | MO4048064   | TOWN & COUNTRY MOBILE HOME PARK       | Consumer Confidence Report                |
|             | MO4041308   | WALNUT GROVE MHP                      | Combined RADS                             |



## Appendix D (Continued)

### Significant Non-Compliers

The following systems had been deemed Significant Non-Compliers for 2010. These are the systems with serious violations that potentially affect public health or with multiple monitoring violations.

| County        | PWS ID #  | Name                                    | Rule                            |
|---------------|-----------|---|---------------------------------|
| STE GENEVIEVE | M04212833 | CROWN RIDGE RESTAURANT                  | TCR                             |
| STODDARD      | M04024583 | STODDARD CO PWSD 3                      | Consumer Confidence Report      |
| STONE         | M05210980 | BRADFORD ON THE LAKE                    | Nitrate                         |
|               | M05191413 | CHRISTIAN ASSOCIATES OF TABLE ROCK LAKE | Lead                            |
|               | M05031127 | COOL WATER COVE WATER WELL ASSN         | TCR                             |
|               | M05031235 | EDGEWATER VILLAGE                       | Consumer Confidence Report      |
|               | M05252981 | JONES COVE SUBDIVISION                  | TCR, Nitrate                    |
|               | M05030930 | RED CEDAR PT HOMEOWNERS ASS INC         | Consumer Confidence Report      |
|               | M05030473 | STARLIGHT VILLAGE                       | TCR, Consumer Confidence Report |
|               | M05258070 | STARRLITE VILLAGE 4TH ADDITION          | Lead                            |
|               | M05041213 | STONES MHP                              | Consumer Confidence Report      |
|               | M05240131 | TABLE ROCK LAKE CAMPGROUND              | TCR                             |
|               | M05212757 | VACATION LANE RESORT                    | TCR                             |
|               | M05036090 | VILLAGE OF CONEY ISLAND                 | Consumer Confidence Report      |
|               | M05218045 | ZOEYS                                   | Nitrate                         |
| SULLIVAN      | M02010574 | NEWTOWN                                 | Consumer Confidence Report      |
| TANEY         | M05070611 | BRANSON EAST APARTMENTS                 | TCR                             |
|               | M05031597 | EAST FORK SUBDIVISION                   | TCR                             |
|               | M05191004 | EDGEWATER BEACH RESORT                  | TCR                             |
|               | M05182954 | GDM INVESTMENT PROJECT                  | TCR                             |
|               | M05021379 | SAVANNAH PLACE THIRD ADDITION           | Consumer Confidence Report      |
|               | M05030391 | SPRING CREEK 2ND ADD                    | Consumer Confidence Report      |
|               | M05031437 | SYCAMORE RIDGE SUBDIVISION              | Consumer Confidence Report      |
| WASHINGTON    | M04040230 | HARPER VALLEY TRAILER PARK              | Consumer Confidence Report      |
|               | M04041275 | L & M MOBILE HOME PARK                  | TCR                             |
|               | M04011123 | MINERAL POINT                           | Combined RADS                   |
|               | M04292853 | ROYS FAMILY MARKET                      | Nitrate                         |
|               | M06024633 | WASHINGTON CO PWSD 1                    | Consumer Confidence Report, TCR |
| WEBSTER       | M05183004 | MID AM METAL FORMING INC                | TCR                             |
| WRIGHT        | M05212760 | MANES CAFE                              | TCR                             |
|               | M05218161 | MOUNTAIN GROVE CHRISTIAN ACADEMY        | TCR                             |





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